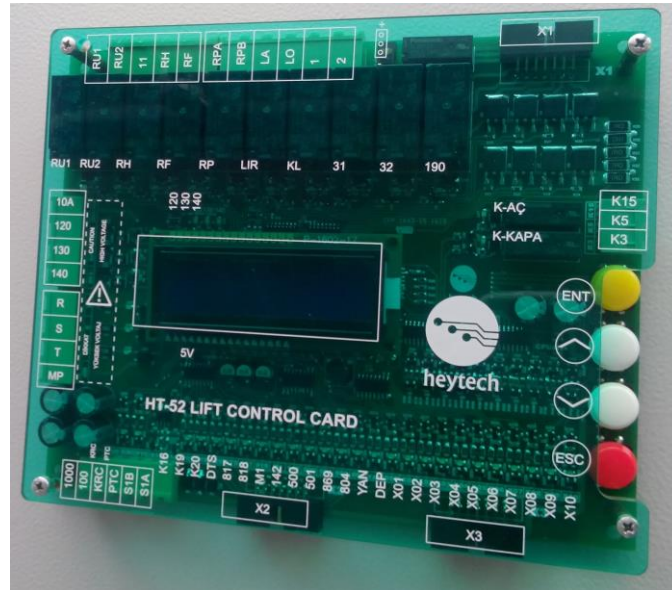




## HT-52 ASANSÖR KUMANDA KARTI (LIFT CONTROL CARD)



## KULLANIM KILAVUZU (USER MANUEL)

## SAFETY NOTES

HEYTECH HT-52 Control card, comply with EN81-1/2 standard, is an integrated and electronic control card that has been designed for drive type hydraulic and roped Lifts. Users can make the programs of control card according to control and Lift system utilised by them by means of the keyboard on the LCD screen.

The system can make level renovation and early door opening with built-in door bridging relays.

There are built-in door relays for double automatic doors.

There is built-in phase control circuit.

For the Lift system to be electrically complies with EN81-1/2 standards:

- ✓ the electrical connections of the control card and control panel should be appropriate.
- ✓ Check certainly whether there is earth connection or not. Connect especially control panel, motor body, all safety device, cabin and its suspension to the earth line.
- ✓ Do not remove the glass housing without cutting the power of the control card.
- ✓ Dust, dirt, oil and rusting arising from the long-time working may prevent the good operation of the safety devices. During periodic maintenances, necessary cleaning should be performed.
- ✓ If your motor has mechanical brake switches, connect them.

This document has been prepared to inform the users. HEYTECH can make changes the content of the document, if required.

## LIST OF PARAMETERS

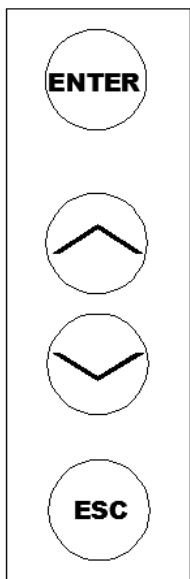
- 00-Lift Type
- 01-Command Type
- 02-Door Type
- 03- Auto Door At Floor
- 04- Auto Door At Floor
- 05- One Door Full Automatic
- 06- Special Door Setting
- 07- Number of Floors
- 08- Cabin Serial Card
- 09-Phase Control
- 10- Phase Level
- 11-Ptc Control
- 12-Krc (Contact Feedback)
- 13-Position Reset
- 14- Revision Movement Limit switch
- 15-Dijital Setting
- 16-Display Output
- 17-Maximum Car Call
- 18- Number of Basement
- 19-Yangın Durağı
- 20- Fire Park Floor
- 21- Park Going Time
- 22- Busy Time
- 23- Waiting Time on the Floor
- 24- Auto Door Opening Time
- 25-Waiting Lock
- 26-Door Still Open Error
- 27-Waiting Photocell
- 28-Fast Cruising
- 29-Slow Cruising
- 30-Rp Delay
- 31-Plug Delay
- 32-Lock Delay
- 33-Maintenance Time
- 34-Change Password
- 35-Counter Type
- 36-Factory Settings

## TECHNICAL SPECIFICATIONS

Dimensions Length × Width × Height (mm)	181 × 150 × 22
Protection Class	IP20
Operation Temperature	±0 - +60 °C
Network Control Inputs	3 x 380V, 50Hz, N
Control Feed Voltage	24 ± 5 Vdc
Power Usage	400mA 10W, 24V için
Security Circuit Voltage	230Vac
Control Signal Inputs	24 ± 5 Vdc
Control Signal Outputs	24 ± 5 Vdc Short-Circuit Protection

- ✓ 2 line 16 character LCD display and 4 button keyboard
- ✓ RS-485 serial communication for serial system connection with cabin
- ✓ Including phase sequential motor protection circuit
- ✓ Including in and output control of 2 automatic doors
- ✓ Short circuit protected digital and signal outputs
- ✓ Setting of indicator possible via menu: 7 segment and gray code

## BUTTONS FEATURES



Menu can be set easily via the keypad recording error records are given the desired lift station can be observed.

- **Introduction to Menu:** Press the Enter key to enter the menu.
- **Menu exit:** Esc key and then press the Enter key on the menu çıkınız.
- **Introduction Manuel motion :** 3 seconds by pressing the Esc key to enter the action on the card revision
- **Moving in the Menu:** Up and down arrow keys to move within the menu.

## HT-52 CONTROL CARD TERMINAL IN/OUTPUTS



<b>R,S,T</b>	Main Supply
<b>MP</b>	Mains Neutral
<b>10A</b>	Safety Circuit Neutral
<b>120</b>	Stop Circuit
<b>130</b>	Door Plug Contact Circuit
<b>140</b>	Door Lock Circuit
<b>PTC</b>	Motor Thermistor & Panel Thermostat. As long as there is a signal
<b>K15</b>	Common signal of door open and door close
<b>K3</b>	Door Close Signal
<b>K5</b>	Door Open Signal
<b>LO</b>	Door Pump Relay Contact Joint
<b>LA</b>	Door PumpRelay Contact Openness
<b>RPA</b>	Engine Contactor Output is Used in VVVF and Hydraulic (RPA,RPB)
<b>RPB</b>	Engine Contactors input (RPO RPA)
<b>1</b>	Cabine feed input
<b>2</b>	Cabine light output
<b>S1A</b>	Cabin Serial Communication Terminals (With Ht-52 SERIAL cards)
<b>S1B</b>	Cabin Serial Communication Terminals (With Ht-52 SERIAL cards)
<b>11</b>	Common RU1, RU2, RH, RF Contactors Feed Voltage
<b>RU2</b>	Up Direction Contactor
<b>RU1</b>	Down Direction Contactor
<b>RH</b>	High Speed Contactor
<b>RF</b>	Low Speed Contactor
<b>100</b>	Control Circuits Feed (+24Vdc)
<b>1000</b>	Control Circuits Feed (0V)
<b>KRC</b>	Feedback Input of the main contactor. The normally closed contacts of the 100 signal of the main contactor must be connected serially to this entry

## HT-52 SERIAL CARD TERMINAL IN/OUTPUTS

<b>S1A</b>	Cabin Serial Communication Terminals
<b>S1B</b>	Cabin Serial Communication Terminals
<b>1000</b>	Control Circuits Feed (0V)
<b>100</b>	Control Circuits Feed (+24Vdc)
<b>2</b>	Cabine light output
<b>1</b>	Cabine feed input
<b>K3</b>	Door Close Signal
<b>K5</b>	Door Open Signal
<b>K15</b>	Common signal of door open and door close
<b>K16</b>	Door open limit signal input
<b>K19</b>	Door Cloose limit signal input
<b>401....410</b>	Cabin call input
<b>DD</b>	Floor Signal output
<b>A,B,C,D,E,F,G,2G</b>	7 segment dijital output
<b>32</b>	Upward Arrow Light
<b>31</b>	Downward Arrow Light
<b>02</b>	Out of Service Lights
<b>12</b>	Busy ligt output
<b>500</b>	Revision Downward Button
<b>501</b>	Revision Upward Button
<b>803</b>	Carload
<b>804</b>	Over load signal input
<b>805</b>	Full load signal input
<b>VAT</b>	Vatman Signal input
<b>K20</b>	Door open,photocell signal input
<b>DTS</b>	Door Cloose button Signal input
<b>G0,G1,G2,G3</b>	Gray,Binary Code Output

## HT-52 TERMINAL CARD IN / OUTPUTS

<b>X1...X10</b>	Floor Call input
<b>869P</b>	Revision Key (to Controller Card)
<b>869K</b>	Revision key (Hand Terminal)
<b>500</b>	Revision Downward Button
<b>501</b>	Revision Upward Button
<b>817</b>	Down Obligatory limit Magnetic Switch
<b>818</b>	Up Obligatory limit Magnetic Switch
<b>M1</b>	Floor counter magnetic switch input
<b>142</b>	Floor stopper magnetic switch input
<b>190</b>	Simple command call partner
<b>869</b>	Revision Key (from the Revision Box)
<b>YAN</b>	Fire Alarm Contact
<b>DEP</b>	Earthquake Alarm Contact
<b>S1A</b>	Cabin Serial Communication Terminals (With Ht-52 SERIAL cards)
<b>S1B</b>	Cabin Serial Communication Terminals (With Ht-52 SERIAL cards)
<b>K20</b>	Door Open Button & Door Jam & Photocell Contact
<b>DTS</b>	Door Close Button
<b>K16</b>	Door open limit signal input
<b>K19</b>	Door Close limit signal input
<b>A,B,C,D,E,F,G,2G</b>	7 segment digital output
<b>12</b>	Busy Lights
<b>31</b>	Downward Arrow Light
<b>32</b>	Upward Arrow Light
<b>02</b>	Out of Service Lights

HT-52 JUMPER CONNECTION	
	
if 31,32,02 and 12 signal outputs are 100	if 31,32,02 and 12 signal outputs are 1000

#### OPENINGSCREEN

HEYTECH HT-52  
SERI NO: 01.01.2014

When power is given the system, the "SPLASH SCREEN" will be appeared on the LCD screen. On this screen, the software version of the card and serial number are shown. After waiting for 2 seconds, the screen will select the display called as "MAIN SCREEN".

#### MAIN SCREEN

WAIT CALL...  
D:10 +24.0 V

On the main screen, the station number where the lift is and the supply tension of control card are shown

#### REVISION FROM THE CARD

REVISION CARD  
D:10 +24.0 V

Take the lift to the position of revision from card by pressing on ECS button for 2 seconds and then move it by up-down buttons.

#### RECORD FROM BUTTONS

Manuel Call ==>10  
D:15 +24.0 V

When press U-Down button, manual record monitor will appear. Select the station and then press ENTER button.



## 00-Lift Type

VVVF SPEED

You can set your lift drive type by this parameter.

**1 SPEED LIFT** : For single-speed roped lifts, this setting should be selected.

**2 SPEED LIFT** : For double-speed lifts, this setting should be selected.

**ROPED VVVF**: Asenkron machine

## 01-Command Type

Simple Command

Set your elevator command type here.

**Simple Command** : The cabin and floor buttons are connected parallelly. No other except the one registration is kept in memory.

**Mixed Collective** : The cabin and floor buttons are connected parallelly. Registrations are kept in memory.

**Down Collective** : The cabin and floor buttons are connected separately. Cabin registrations are collected from both sides. Floor calls are collected when when cabin moves in downward direction.

**Full Collective (both ways)** : Cabin registrations and the up and down buttons at the floors are connected separately. Cabin registrations and floor calls are collected in appropriate manner of movement direction.

## 02- Door Type

Swing Door

Set the open-close signal type for automatic doors here.

**Swing Door** : Only for elevators that have no automatic door.

**Aut. Unlimited** : Only used for elevators with automatic unlimited cabin doors.

**Aut. limited** : Only used for elevators with automatic limited cabin doors

**Full Aut. Unlimited** : Only used for elevators with full automatic unlimited cabin doors.

**Full Aut. limited** : Only used for elevators with full automatic limited cabin doors.

According to the EN 81-1/2 standards in states of emergency stop, revision and take back automatic doors must remain stationary

## 03- Aut.Door.At.Floor

Closed Standby

Set the open or closed position of the automatic door when waiting at floor.

## 04- Aut.Door.At.Park

Wait closed

Set the open or closed position of the automatic door when waiting at park.

**05- One Door Full Aut.**

Cancel

On elevators with swing doors, set this parameter when there's only one full automatic door.

**06- Special Door Setting**

Floor:10 Door:AB

Set the floor at which you want to open the automatic A and B doors. When floor number is blinking, change the floor number with the UP-DOWN buttons till you come to the floor number you want to change. Press the ENTER button and next you will see the door setting blinking.

Determine the door setting again by using the UP-DOWN buttons.

**07- Number of Stops**

D:10

Set the number of stops (maximum 10) here.

**08-Cabin Serial Card**

19200 Baud

Set the communication speed between the main controller card and the serial communication card here. Or choose to ignore it.

**09-Phase Protection**

Phase Sequence

Set the phase sequence or deactivate the phase here.

**Out of Order** : Deactivate phase

**Phase unsequenced** : Activates phase without sequence

Phase sequenced Activates phase sequenced

**10-Phase Level**

030

Adjust the phase imbalance here.

**020 - 060** These are the minimum and maximum phase balance time.

**11-Ptc**

Active

Choose the PTC motor thermistor input setting.

**ACTIVE**:Activates it.

**CANCEL**: Deactivates it.

## 12- KRC Contact Feedback Active

Set here the bypassing of the contact feedback error. The controller card does not detect any contactor adhesion when it's cancelled. If it is cancelled our company is not responsible.

**ACTIVE:** Activating the contact feedback error

**CANCEL:** Bypassing the contact feedback error

## 13-Position Reset Cancel

Even when there's a power blackout the controller card will remember its last position. But in some special cases when the power returns, a position reset may be wanted. In that case the elevator will go until it reaches the 817 limit switch of the bottom floor. When it reaches the

bottom floor, the floor counter will reset. For example: with systems that have battery charged rescuers, this parameter can be activated to reset the position.

**ACTIVE:** Activates it. **CANCEL:** Deactivates it.

## 14-Rev. Limit Switch Until limit switch

Set the movement type of the up and down limit switches in revision.

**Until Limit switch:** When limit switches are enabled the elevator will stop before reaching its floor.

**Until Floor:** Even when limit switches are enabled the

elevator will go to its floor.

## 15-Digital Setting

FLOOR:1 DJT:1

When the floor number is blinking, set the floor number with the UP-DOWN buttons till you come to the floor number you want to change. Press the ENTER button and next you will see the digits blinking. Set the value you like. When finished exit with the exit button. Or if you

want to set another stop/floor, press the enter button, when floor number is blinking, repeat the steps.

### 7 Segment indicator

-4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 A, B, C, D, E, F, H, J, L, N, O, P

## 16-Display Output Normal

Set the display output of the HT-52 controller card and HT-52 SERI card.

**7 Segment output Normal output.**

**Gray code output Gray code output.**

## 17-Max. Call Reg. 010

Set the maximum amount of calls that can be registrated from within cabin. When this number is reached it stops registrating any calls from within cabine.

**01 - 10** Set the number of stops between the minimum and maximum.

## 18-Number of basement 000

Set the number of basement here.

If the elevator is down collective, the floors that are under the basement that is set, it will be up collective.

**Note:** Used in command types except for down collective.

### 19-Fire Stop 01

Set here the fire stop. When Fire input (at SIDE) is active the elevator goes to the defined floor directly and waits with its doors open. Elevator will return to normal operation mode when fire signal is over.

**01 - 10** Seconds This is the minimum and maximum time that is waited before going to park stop  
Cancel Fire stop is not defined in the system.

### 20-Park stop 05

Set the park stop here. When elevator pauses its operation, it goes to this floor and waits with open doors.

### 21-Return to park 200 Seconds

Set the waiting time before going to park stop.

**0 - 250** Seconds Set the waiting time between the minimum and maximum.

### 22-Busy Time 006 Seconds

Set the cabin light delay here.

**5 - 20** Seconds Set the cabin light delay time between the minimum and maximum

According to the EN 81-1/2 standards it is not allowed to bypass the cabin light delay.

On elevators with simple command (non-collective) this parameter must be equal to the "WAIT AT STOP" time. And the busy time must be at least 2 seconds.

### 23-Waiting Time at Floor 008 Seconds

Set the waiting time before going to other registrations while collecting.

**3 - 15** Seconds Set the waiting time at floor between the minimum and maximum

According to the EN81-1 and EN81-2 standards, elevators with manual doors must have a waiting time of at least 2 seconds when moving again after reaching its floor.

On elevators with simple command (non-collective) this parameter must be equal to the "CABIN LIGHT" time and must be at least 2 seconds

### 24-Open Door Time 15 Seconds

Set the time from opening till closing of the automatic door.

**05 – 20** Seconds Set the door open-close time between the minimum and maximum.

**25-Lock waiting**  
008 Seconds

Set the maximum time to wait for the door lock signal (140) after getting the door closed signal.

**8 - 30** Seconds Set the lock waiting time between the minimum and maximum.

**26-Door Still Open Error**  
015 Seconds

If after the time set in this parameter the door is not closed yet the control panel will go out of service. It is possible to choose to bypass this function.

**0 - 250** Seconds Set the time for passing the door still open error between the minimum and maximum.

**27-Photocell Waiting time**  
003 Seconds

Set the time of waiting for the photocell signal to close the door after the opening of the automatic door.

**02 - 05** Seconds Set the photocell waiting time between the minimum and maximum.

**28-Fast Cruising**  
015 Seconds

Set the maximum time of cruising between 2 stops. If this time should be exceeded, the system automatically stops the movement of the cabin and blocks it.

**0 - 100** Seconds Set the fast cruising time between the minimum and maximum.

According to the EN81-1 / 2 standards motor operation time work must not exceed the smaller of the following:

- ✓ 45 seconds
- ✓ Longest cruising distance +10 seconds
- ✓ If longest cruising distance is less than 10 seconds, the timeout should be at least 20 seconds.

**29-Slow Cruising**  
015 Saniye

Set the maximum time of slow cruising from the moment it meets the stopper of the target floor. If this time should be exceeded, the system automatically stops the movement of the cabin and blocks it.

**0 - 100** Saniye Set the slow cruising time between the minimum and maximum.

**30-RP Delay**  
02600

It could be demanded with roped VVVF systems to delay the fall of the main contactor. In such cases, the RP delay of the relay output is set by this parameter.

**00000 - 25000** Miliseconds Set the contactor delay time between the minimum and maximum.

**31-Plug delay**  
00600

Set here the waiting time after the 130 circuit.

**00000 - 25000** Miliseconds Set the plug delay time between the minimum and maximum.

**32-Lock Delay**  
00100 Miliseconds

Set the maximum waiting time for arrival of the lock (140) signal after the door closed signal.

**0 - 2000** Miliseconds Set the lock delay time between the minimum and maximum.

### 33-Maintenance Time 200 Days

For every day the card operates the value of this parameter drops by one. For example, if it is set for 45 days, this parameter will show a value of 15 when 30 days have passed. After 45 days the value will be 0.

**45 - 250 Days** Set the maintenance time between the

minimum and maximum.

### 34-Change Password

Set or change the password code here.

**1\_0\_0\_0\_0** If the display looks like this, the password is in activated.

### 35-Counter Type M1

Set here your selection of the elevator floor sensor.

**Standard M0:** Standard M0 counter.

**Standard M1:** Standard M1 counter.

### 36-Factory Settings

Here you can cancel your settings and return to factory settings.





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